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ZOOLOGY.

A New Practical Zoölogy.¹—A new elementary text-book of practical zoölogy on the lines already made familiar by Huxley and Martin's *Elementary Biology* has been published under the joint authorship of the late T. J. Parker and W. N. Parker. The student finds an introduction to the principles of zoölogy through a study of the frog, which occupies somewhat more than a third of the volume. Then follow chapters on the amœba, hæmatococcus, infusorians, hydra, earthworm, crayfish, fresh-water mussel, amphioxus, dogfish, and rabbit. Many of these chapters include discussions of general zoölogical problems especially well illustrated by the particular animal under consideration; thus, under Infusoria, biogenesis and abiogenesis are discussed, and under Hydra and its allies, alternation of generations. The book is concluded with a chapter on the structure of the cell and its rôle in development, as illustrated by vertebrate embryology. There are numerous good illustrations, and the practical directions are such as are of real value. The volume forms an important contribution to the list of laboratory text-books. P.

Gogorza's List of the Vertebrate Animals of the Philippines.—In the *Annals of the Natural History Society of Madrid* for 1888, José Gogorza y González gives under the title of "Datos para la Fauna Filipina," a list of the vertebrate animals known from these islands. The list is based largely on the collections in the museum at Madrid, the collections of numerous Spanish engineers and explorers, notably Francisco Martinez, Carlos de Mazarredo, José Pérez Maeso, Domingo Sánchez, and Regino Garcia.

Thirty-five species of mammals are recorded: 156 of birds, 87 of reptiles, 10 of amphibians, and 292 of fishes. No new species are described in any group. The nomenclature of the fishes is not very modern, being apparently based solely on Günther's *Catalogue of the Fishes of the British Museum*. There is, however, evidence that the work has been conscientiously performed. All the species mentioned are ascribed to a definite locality, a fact which indicates that the paper is not at all a compilation, and that the collection on which it is based is a very rich one, though doubtless not including more than a third of the fishes actually visiting these islands. D. S. J.

¹ Parker, T. J., and Parker, W. N. *An Elementary Course of Practical Zöology*. xii + 608 pp., 156 illustrations. New York, The Macmillan Company, 1900.